BRUHAT BANGALORE MAHANAGARA PALIKE

Modified Estimate for

Name of Work: Drilling of new Borewells and providing pipeline in ward No.07 Byatarayanapura

Pcode-3293,Job Code: 007-19-000004

Sl No	Description of item	No	L	B	D	Qty	Rate	unit	Amount
1	2	3	4	5	6	7	8	9	10
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality, quantity and acceptability of the users indicating the location of site, recommended depth of casing pipe required an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2012-13**								
		7				7.00	1938.46	Each BW	13569.22
	Basic Rate	1882.00							
	3% area weightage	56.46							
	Total	1938.46							
	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / It. 9.1 PRED SR 2012-13**								
2	0 to 50 m	7	50.00			**350.00**		Rmtr	
					Total	**350.00**			
					Tender Qty	**50.00**			
					Qty upto 125%	**62.50**	**315.18**		**19698.75**
					Qty Above 125%	**287.50**	**283.54**		**81516.58**
	Basic Rate	306.00							
	3% area weightage	9.18							
	Total Rs.	315.18							
	(-10.04%)TP	-31.64							
	Total	283.54							
3	50 to 100 m	7	50.00			**350.00**		Rmtr	
					Total	**350.00**			
					Tender Qty	**50.00**			
					Qty upto 125%	**62.50**	**412.00**		**25750.00**
					Qty Above 125%	**287.50**	**370.64**		**106557.62**
	Basic Rate	400.00							
	3% area weightage	12.00							
	Total Rs.	412.00							
	(-10.04%)TP	-41.36							
	Total	370.64							
4	100 to 150 m	7	50.00			**350.00**		Rmtr	
					Total	**350.00**			
					Tender Qty	**50.00**			
					Qty upto 125%	**62.50**	**458.35**		**28646.88**
					Qty Above 125%	**287.50**	**412.33**		**118545.35**
	Basic Rate	445.00							
	3% area weightage	13.35							
	Total Rs.	458.35							
	(-10.04%)TP	-46.02							

	Total	412.33								
5	150 to 200 m	7	50.00			350.00			Rmtr	
						Total	**350.00**			
						Tender Qty	**50.00**			
						Qty upto 125%	**62.50**	**484.10**		**30256.25**
						Qty Above 125%	**287.50**	**435.50**		**125205.20**
	Basic Rate	470.00								
	3% area weightage	14.10								
	Total Rs.	484.10								
	(-10.04%)TP	-48.60								
	Total	435.50								
6	200 to 250 m	7	50.00			350.00			Rmtr	
						Total	**350.00**			
						Tender Qty	**50.00**			
						Qty upto 125%	**62.50**	**560.32**		**35020.00**
						Qty Above 125%	**287.50**	**504.06**		**144918.36**
	Basic Rate	544.00								
	3% area weightage	16.32								
	Total Rs.	560.32								
	(-10.04%)TP	-56.26								
	Total	504.06								
7	250 to 300 m	7	24.00			168.00			Rmtr	
						Total	**168.00**			
						Tender Qty	**50.00**			
						Qty upto 125%	**62.50**	**600.49**		**37530.63**
						Qty Above 125%	**105.50**	**540.20**		**56991.18**
	Basic Rate	583.00								
	3% area weightage	17.49								
	Total Rs.	600.49								
	(-10.04%)TP	-60.29								
	Total	540.20								
8	Supply of ISI mark **175** mm nominal bore, plain end steel casing pipe grade of steel fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10 Kg/mtr.(Inclusive of all taxes and durties). Prices include collar-medium duty.**(Piii, It, 84)**									
		7	30.00			210				
						Total	**210.00**	1364.75	Rmtr	**286597.50**
9	Providing 200mm dia PVC Pipe10kg/cm2 **SE PRED PAGE NO 15 IT 3.4.3 G**									
		7	20.00			140				
						Total	140.00	1144.00	Rmtr	**160160.00**
10	Providing and supllying 175mm dia M.S.Cap (as per PREC SR 2012-13) etc., complete as per specifications and direction of the Engineer--in-charge **(Piii, It 85)**									
		7				7.00	100.00		Nos	**700.00**
11	Supplying and delivery of sub mersible pumpset suitable for borewell of 165mm dia with specified duty conditions as detailed below and satisfied in BIS with ISI mark with a minimum efficeiency of 42% pump shall confirm to IS 8034/2002 and motor confirming to IS 9283/1995 with ISI certification with latest amendemnets for the following, Page No. XXXXII									
	17.5 HP 13kw 40 stage sub mersible pumpset	**6**				**6**	56607.00		Nos	**339642.00**

12	Providing and fixing in galvanised mild steel tubes (Heavy class as per IS 1239 Part-1990) 50mm dia nominal bore with all fittings including cost of all materials labour charges HOM of euipment and testing complete as per specification **(PWD SR 2015-16 P NO.87, It No.13.6)**								
		6	258.00			1548.00	378.92	Mtr	**586568.16**
13	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-c(1) 2.5 Sqm mm of 36 strands 0.3mm dia Group - A **KPWD Electrical SR 2014-15**								
		6	566			3396.00	171.70	Mtr	**583093.20**
14	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09								
		6				6.00	3000.00	Nos	**18000.00**
15	Supply heavy duty galvanized mild steel color suitable for 50mm dia nominal bore galvanized mild steel								
		6x43				258.00	130.00	Nos	**33540.00**
16	Supply of non return valve suitable for 50mm dia nominal bore galvanized mild steel tube **(P No 95, It No.13.55)**								
	1330x6%=1409.8	6				6.00	1409.00	Nos	**8454.00**
17	Supplying of on load charges over switches 4 poles 415V, 5hr ac supply 100-125 amps group A **(BWSSB SR Rate P No 3481, It Group A)**								
		6				6.00	9845.00	Nos	**59070.00**
18	Supply and fully automatic star delta uint push button type with suitable wires, 3 conatactor one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired after to the existing wooden board for motor 12.5 HP **(BWSSB SR P No. 335. It No.10(A)**								
		6				6.00	5665.00	Nos	**33990.00**
19	Erection of single phase preventor ammeters/including fixing selctor switch/current operated earth leakage circuit breakers voltage operated circuit breaker above 100A fuse channel set (3 Nos) HRC fuses above 100A (3 Nos) including transportation charges from stores to spot **(P-28. It No.16)**								
		6				6.00	1500.00	Nos	**9000.00**
20	Fabricating, supplying and mounting 1200x900x350 mm MS box of 18 SWG suitable for floor /wall mounting, fully weather proof with double stanted top as per drawing with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with approved colour enamelled metal paint etc., complete box of 36200 sqcm @ Rs.0.20 18 SWG **(BWSSB SR P-352, It No 41)**								
		6				6.00	7866.00	Nos	**47196.00**
21	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materials and wiring complete as requireds32 to 63 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **(BWSSB SR P-352, It No 15)**								

		6				6.00	2090.00	Nos	12540.00
22	Supplying and running of GI copper strips or grounding connections using necessary fixing materials required 600x600x3mm GI plate **(P-378, It 9(E)**								
		6				6.00	1072.00	Nos	6432.00
23	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P** **No. 32/I No 3d KPWD Electrical SR 2010-11**								
	100 Amps	6	1*6			36	201.40	Nos	7250.40
	Basic Rate	190.00							
	Area Weightage @ 6%	11.40							
	Total	**201.40**							
24	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15**								
	16SWG	6	2	120.00	60.00	86400.00			
		6	1	360.00	25.00	54000.00			
						140400.00	0.33	sqm	46332.00
25	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter**								
		6				6	10000.00	Nos	60000.00
26	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **(P.81/I.13.37 PWD SR - 2015-16)**								
		6				6	1843.34	Nos	11060.04
	Basic Rate	1739.00							
	Area Weightage @ 6%	104.34							
	Total	1843.34							
27	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**								
		6	25			**150.00**	140.40	Rmt	21060.00
28	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**								
		6	25			**150.00**	10.80	Rmt	1620.00

29	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**								
	For Cutting Road Surface	6	25			**150.00**	117.00	Rmt	**17550.00**
30	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**								
	40mm dia GI pipe	6	4.00			**24.00**	345.00	Rmt	**8280.00**
31	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**								
	16Sqmm	6				**6.00**	280.00	Nos	**1680.00**
32	Cutting the road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading danger lighting etc in following classifications Cutting in Cement concrete road surface (Page 269 Item 37.40)								
	for pipe line	6	252.00	0.30	0.20	**90.72**	727.16	Cmtr	**65967.96**
	Basic Rate	686.00							
	Area Weightage @ 6%	41.16							
	Total	727.16							
33	Providing and fixing Chorinated Poly Venyl Chloride(CPVC) pipes confirming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass treaded fittings including fixing the pipe with clamp at 1.oo m spacing.This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete (inertnal work exposed on wall).(Pg No.98, Item No.13.85.6. 50mm nominal OD pipe)								
	for pipe line	6	252.00			**1512.00**	448.00	m	**677376.00**
	Basic Rate	465.00							
	Area Weightage @ 6%	27.90							
	Total	492.90							
34	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with lead upto 50m. and lift upto 1.5m complete as per specifications.Specification No.KBS 2.10.2(Page No7., Item No. 2.13)								
		6	252.00	0.20	0.10	**30.24**	2183.60	Cmtr	**66032.06**
	Basic Rate	2060.00							
	Area Weightage @ 6%	123.60							
	Total	2183.60							
35	KSRB 4 - 1.6 : Providing and laying in position plain cement concrete of mix M 15 with cement @ 240 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation plinth and cills including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.6)								
	This Item is not Operated								
	Bescom deposits and other service charges								18000.00
						TOTAL			**4011397.34**

Technical Sanction
Accounts Ref. No. 4011397.34
Head of A/C 13293...
CER NO :...06..... Dt. 01.06.2020

TA CE (WK)

Asst. Engineer
Ward no.07

Asst. Executive Engineer
Kodigehalli Sub Division

Executive Engineer
Byatrayanapura Division